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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/588,670	08/07/2006	Larry Fossett	871.0153.U2(US)	9965
29683 7590 06/18/2008 HARRINGTON & SMITH, PC 4 RESEARCH DRIVE SHELTON, CT 06484-6212				
EXAMINER NGUYEN, HOANG V				
ART UNIT 2821		PAPER NUMBER		
MAIL DATE 06/18/2008		DELIVERY MODE PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/588,670

Applicant(s)

FOSSETT, LARRY

Examiner

HOANG V. NGUYEN

Art Unit

2821

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 28 April 2008.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-25, 27-33, 35 and 36 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1-22, 27-33, 35, 36 is/are allowed.
- 6) ☒ Claim(s) 23-25 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB-08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

2. Claims 23-25 are rejected under 35 U.S.C. 102(b) as being anticipated by Klemens et al (US 6,239,755).

Regarding claim 23, the antenna structure of Klemens (Figures 6A-6B, abstract) would enable a method for receiving a radio frequency signal at a wireless communications device comprising the steps of extending a parasitic whip 610 to overlap an active stub 606; receiving a signal utilizing both the parasitic whip and the active stub when the parasitic whip is extended; and providing the received signal to the wireless communications device via the active stub.

Regarding claim 24, as applied to claim 23, Klemens (abstract) teaches the step of detuning the parasitic whip 610 by retracting the parasitic whip.

Regarding claim 25, as applied to claim 24, Klemens (abstract) teaches the step of receiving another signal via the active stub 606 when the parasitic whip is detuned.

Allowable Subject Matter

3. Claims 1-22, 27-33, 35 and 36 are allowed.

4. The following is a statement of reasons for the indication of allowable subject matter:

Regarding claim 1, Klemens et al fails to specifically teach, in combination with other limitations, an extendable antenna component that is coupled to the transceiving antenna component via a nongalvanic interface, the transceiving antenna component configured to

convey the modulated signal to the extendable antenna component via electromagnetic induction, the extendable antenna component configured to widen a bandwidth of the transceiving antenna component for transmitting the signal.

Claims 2-5 and 7-11 are allowed for depending on claim 1.

Regarding claim 6, Klemens fails to specifically teach, in combination with other limitations, an extendable antenna component that is coupled to the transceiving antenna component via a nongalvanic interface, the transceiving antenna component configured to convey the modulated signal to the extendable antenna component via electromagnetic induction, the extendable antenna component configured to transmit the signal, and wherein the extendable antenna component is tuned to operate at a frequency based on a length of the extendable antenna component and an amount of overlap between the transceiving antenna component and the extendable antenna component.

Regarding claim 12, Klemens fails to specifically teach, in combination with other limitations, that the parasitic whip configured to widen a bandwidth of a received signal resonating at least partially within one of the tuned frequency bands of the active stub and for inductively transferring the signal to the active stub.

Claims 13-19 are allowed for depending on claim 12.

Regarding claim 20, Klemens fails to teach a method comprising the specific steps of extending a parasitic whip to overlap an active stub; providing the active stub with a radio frequency signal from a wireless communications device; inducing a current in the parasitic whip; and transmitting the signal utilizing both the active stub and the parasitic whip such that the parasitic whip widens a bandwidth of the active stub.

Claims 21 and 22 are allowed for depending on claim 20.

Regarding claim 27, Moller et al (US 5,995,050) fails to further teach, in combination with other limitations, that the extendable antenna component is configured to operate in the extended position to widen a bandwidth of the fixed antenna element.

Claims 28, 29, 32, 35 and 36 are allowed for depending on claim 27.

Regarding claim 30, Moller fails to further teach, in combination with other limitations, an extendable antenna component inductively coupled to the fixed antenna component in an extended position via an overlap extending at least about 4 mm between the fixed and extendable antenna components, and decoupled from the fixed antenna component in a retracted position by a detuning circuit that is disposed on a printed wiring board that comprises a ground plane to the fixed antenna component.

Regarding claim 31, Moller fails to further teach, in combination with other limitations, an extendable antenna component inductively coupled to the fixed antenna component in an extended position via an overlap extending at least about 4 mm between the fixed and extendable antenna components, and decoupled from the fixed antenna component in a retracted position by a non-conductive portion of the extendable antenna component overlapping with the fixed antenna component while in the retracted position.

Regarding claim 33, Moller fails to further teach, in combination with other limitations, an extendable antenna component inductively coupled to the fixed antenna component in an extended position via an overlap extending at least about 4 mm between the fixed and extendable antenna components, and decoupled from the fixed antenna component in a retracted position; wherein the fixed antenna component is coupled to a printed wiring board that comprises a

ground plane to the fixed antenna component, the extendable antenna component disposed so as to lie alongside the printed wiring board while in the retracted position.

Response to Arguments

5. Applicant's arguments, filed on 4/28/2008, with respect to claims 1-22, 27-33, 35 and 36 have been fully considered and are persuasive. The rejections of claims 1-22, 27-33, 35 and 36 have been withdrawn.

Applicant did not address or amend claims 23-25. Therefore, the 35 U.S.C. 102(b) rejection to claims 23-25 as anticipated by Klemens are maintained.

Conclusion

6. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to HOANG V. NGUYEN whose telephone number is (571)272-1825. The examiner can normally be reached on Mondays-Fridays from 8:00 a.m. to 4:00 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Douglas Owens can be reached on (571) 272-1662. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

8. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Hoang V Nguyen/
Primary Examiner, Art Unit 2821